Index of Claims

| App | lication | <b>Control</b> | No. |
|-----|----------|----------------|-----|
| 777 |          | 00             |     |

09/683,992

Examiner

Irakli Kiknadze

Applicant(s)/Patent under Reexamination

KUMP ET AL.

Art Unit

2882

Rejected Allowed

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|         | _        |  |              |                                     |              |   |  |  |              | 0        |   |          |          |          |  |  |          |  |   |
|---------|----------|--|--------------|-------------------------------------|--------------|---|--|--|--------------|----------|---|----------|----------|----------|--|--|----------|--|---|
| Cla     | aim      |  |              |                                     | [            | Date  | е  |  | _            | _        |   | Cla      | im       |          |  |  |          | Date   | 9 |
| Final   | Original | 3/28/05  |              |                                     |              |   | -  |  |              |          |   | Final    | Original |          |  |  |          |  |   |
| 1       | 1        | =  |              |                                     |              |   |  |  |              |          | 1 |          | 51       |          |  |  |          |  | ľ |
| 2       | 2        | =  |              |                                     |              |   |  |  |              |          | 1 |          | 52       |          |  |  |          |  |   |
| 3       | 3        | =  |              |                                     |              |   |  |  |              |          |   |          | 53       |          |  |  |          |  |   |
| 4       | 4        | =  |              |                                     |              |   |  |  |              |          | } |          | 54       |          |  |  |          |  |   |
| 5       | 5        | =  |              |                                     |              |   |  |  |              |          |   |          | 55       |          |  |  |          |  | L |
| 6       | 6        | =  |              |                                     |              |   |  |  |              |          |   |          | 56       |          |  |  |          |  | L |
| 7       | 7        | =  |              |                                     |              | _   |  | L  | L            |          | Į |          | 57_      | L        |  | <u> </u>   | <u> </u> |  | l |
| 8       | 8        | =  |              |                                     |              |   |  | L  | L            |          |   |          | 58       | <u> </u> |  |  |          |  | l |
| 9       | 9        | =  | _            |                                     | L            |   |  |  |              |          |   | <u> </u> | 59       | L        |  |  | <u> </u> |  | ļ |
| 10      | 10       | =  | _            |                                     |              |   |  |  |              |          | ļ | L        | 60       |          | <u> </u>   |  | _        |  | ļ |
| 11      | 11       | =  | _            |                                     |              |   |  | _  |              |          |   | <u> </u> | 61       | _        |  | <u> </u>   |          |  | ļ |
| 12      | 12       | =  | _            |                                     | _            |   |  |  | <u> </u>     |          |   | <u> </u> | 62       | _        |  | _  | _        |  | l |
| 13      | 13       | =  | _            |                                     | _            |   |  | _  | L.           |          |   | <u> </u> | 63       |          | L  | ļ  | L.       |  | ļ |
| 14      | 14       | =  |              |                                     | _            | $ldsymbol{le}}}}}}$ |  | _  |              |          | ļ | <u> </u> | 64       |          |  | _  | _        |  | ļ |
| 15      | 15       | =  |              |                                     |              | <u> </u>  | -  | _  | <u> </u>     |          |   | ļ        | 65       | <u> </u> | _  |  | _        |  | ŀ |
| 16      | 16       | =  |              |                                     |              |   | _  |  | _            | _        |   | <u> </u> | 66       | <u> </u> | _  |  |          |  | ŀ |
|         | 17       |  |              |                                     | _            | _   | ⊢  | <u> </u>   | _            | _        |   |          | 67       | <u> </u> | L  |  | ┝        |  | Ļ |
|         | 18       |  |              |                                     | ļ            |   | <u> </u>   | -  | <u> </u>     | -        |   | <u> </u> | 68       | <u> </u> | <u> </u>   | <u> </u>   | <u> </u> |  | ŀ |
|         | 19       |  |              | _                                   | <u> </u>     | _   | <del> </del>                                     |  |              | -        |   |          | 69       | ├        | _  | <u> </u>   | ├        | _  | ł |
|         | 20       |  |              | _                                   |              |   | ┞  |  | <u> </u>     | -        |   |          | 70       | _        | <u> </u>   | <u> </u>   |          |  | ŀ |
|         | 21       |  |              |                                     | _            |   | _  | ļ  | -            | _        |   |          | 71       | <u> </u> | <u> </u>   | ├—   | ⊢        |  | ŀ |
|         | 22       |  |              |                                     | <u> </u>     | <u> </u>  | ├—   | -  | -            | ₩.       |   | <u> </u> | 72       |          | -  | -  | ⊢        |  | ŀ |
| 47      | 23       | _  |              |                                     |              | <u> </u>  | ├-   | _  | ļ            | ┢        |   |          | 73       | -        | ⊢  | <u> </u>   | ⊢        | -  | ł |
| 17      | 24       | =  |              |                                     | -            |   | ├—   | <del> </del> —                                   | -            | <u> </u> |   |          | 74       | -        | ⊢  | ├  | ⊢        |  | ł |
| 18      | 25       | =  |              |                                     | <u> </u>     |   | ├  | <del> </del> —                                   | ├            | -        |   | <u> </u> | 75       | H        | $\vdash$   |  | ⊢        |  | ł |
| 19      | 26<br>27 | =  |              |                                     | ⊢            |   | ├  | -  | ┢            | -        | l |          | 76<br>77 | ┢        | ┢  | -  |          |  | ł |
| 20      | 28       | =  | <del> </del> | -                                   | ┢            | ⊢   | ┢  | ⊢  | ├            |          | 1 |          | 78       | $\vdash$ | $\vdash$   |  |          | ⊢  | ł |
| 22      | 29       | =  | -            | -                                   | ┢            | -   | ├  | ╁  | ┢            | -        | l |          | 79       |          | $\vdash$   |  |          | ├  | ł |
| 23      | 30       | =  |              | <u> </u>                            | ├─           | ┢   | ╁  | ╁  | <del> </del> |          | ł |          | 80       | -        | -  |  |          | $\vdash$   | ł |
| 24      | 31       | =  |              | -                                   | ┢            | -   | ┢  | ⊢  | $\vdash$     |          | ł |          | 81       | $\vdash$ | -  | -  |          | H  | ł |
| 25      | 32       | Ē  | $\vdash$     | $\vdash$                            | ├            | $\vdash$  |  | ├  | ╁            |          | 1 | <u> </u> | 82       | -        |  | -  |          | $\vdash$   | ł |
| 26      | 33       | =  |              |                                     |              | ┢   | ┢  | $\vdash$   | $\vdash$     |          | i |          | 83       | $\vdash$ |  | $\vdash$   |          | _  | t |
| 27      | 34       | =  | $\vdash$     | $\vdash$                            | $\vdash$     | <del>                                     </del>  |  | <del>                                     </del> | _            |          | 1 | $\vdash$ | 84       | T        | $\vdash$   | $\vdash$   | $\vdash$ | <del>                                     </del> | t |
| 28      | 35       | =  | $\vdash$     | $\vdash$                            |              | $\vdash$  | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$ | 1 |          | 85       | ┢        | t  | Т  | Г        | <del>                                     </del> | t |
| 29      | 36       | =  | $\vdash$     | 一                                   | 1            | Г   | <del>                                     </del> | T  | T            |          | 1 |          | 86       | Т        | <del>                                     </del> | <del>                                     </del> | _        | Т  | t |
| 30      | 37       | =  | _            | Г                                   |              | <b>!</b>  | T  | T  | $\vdash$     |          | 1 |          | 87       |          |  |  |          |  | t |
|         | 38       | <del>                                     </del> | $\vdash$     | Ι                                   |              | Г   | T  | Т  | 1            |          | 1 | <b></b>  | 88       | Г        |  | Г  |          |  | t |
|         | 39       |  |              |                                     | T            |   | <u>                                     </u>     | <b>†</b>   | T            | Г        | ĺ |          | 89       |          | Г  | Γ  |          |  | Ī |
|         | 40       |  |              | Г                                   | T            |   | $I^-$  | 1  |              |          | 1 |          | 90       |          |  |  |          |  | Ţ |
|         | 41       |  |              |                                     |              |   |  |  |              |          | ] |          | 91       |          |  |  |          |  | J |
| Ĺ       | 42       |  |              |                                     |              |   |  |  |              |          |   |          | 92       |          |  |  |          |  | J |
|         | 43       |  |              |                                     |              |   |  |  |              |          | ] |          | 93       |          |  |  |          |  | J |
|         | 44       |  |              |                                     |              |   |  |  |              |          |   |          | 94       |          |  |  |          |  | I |
|         | 45       |  |              |                                     |              |   |  |  |              |          |   |          | 95       | L        |  |  |          |  | l |
|         | 46       |  |              |                                     | $\Box$       |   |  |  | <u> </u>     | <u> </u> | 1 |          | 96       | L        | _  | ــــــا  | <u> </u> |  | ļ |
|         | 47       |  | _            | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |              |   | ļ.,  | <u> </u>   |              | _        | 1 | ļ        | 97       | _        |  | L_   |          |  | 1 |
|         | 48       | <u>L</u>   | <u> </u>     | <u> </u>                            | <b>!</b>     | L_  | <u> </u>   | 1  | <u> </u>     | <u> </u> | 1 |          | 98       | _        | <u> </u>   |  | <u> </u> | <u> </u>   | ļ |
| <u></u> | 49       | <u> </u>   | <u> </u>     | _                                   | <u> </u>     | ㄴ   | <b> </b>   | <u> </u>   | <b>!</b>     | <u> </u> |   |          | 99       | <u>_</u> | <u> </u>   | L  | <u> </u> | <u> </u>   | ļ |
|         | 50       | L  |              |                                     | $oxed{oxed}$ | <u> </u>  | Щ  | L  |              | <u> </u> | J | L        | 100      | <u> </u> | L  | <u></u>  | L        |  | 1 |

| Cla      | im       |          |          |          |          | ate      | •        |                                     |          |               |
|----------|----------|----------|----------|----------|----------|----------|----------|-------------------------------------|----------|---------------|
|          |          |          | $\neg$   |          | Ī        |          |          |                                     |          |               |
| Final    | Original |          |          |          |          |          |          |                                     |          |               |
| -        |          |          |          |          |          |          |          |                                     |          |               |
|          | 51<br>52 |          |          |          |          |          |          |                                     |          |               |
|          | 52       | I        |          |          |          |          |          |                                     |          |               |
|          | 53       |          |          |          |          |          |          |                                     |          |               |
|          | 54       |          |          |          |          |          |          |                                     |          |               |
|          | 54<br>55 |          |          |          |          |          |          |                                     |          |               |
|          | 56       |          |          |          |          |          |          |                                     |          |               |
|          | 57       |          |          |          |          |          |          |                                     |          |               |
|          | 58       |          |          |          |          |          |          |                                     |          |               |
|          | 59       |          | _        |          |          | $\neg$   |          |                                     |          | _             |
|          | 60       |          |          |          |          |          |          |                                     |          |               |
|          | 61       |          |          | _        |          | $\neg$   |          |                                     |          |               |
|          | 62       |          |          | _        | $\Box$   | $\neg$   |          |                                     |          |               |
|          | 63       |          |          |          |          |          |          |                                     |          |               |
|          | 64       |          | - 1      |          |          |          |          |                                     |          |               |
|          | 65       |          |          |          |          |          |          |                                     |          | _             |
|          | 66       |          |          |          |          |          |          |                                     |          |               |
|          | 67       |          |          |          |          |          |          |                                     |          |               |
|          | 68       |          |          |          | $\neg$   |          |          | $\overline{}$                       |          | $\overline{}$ |
|          | 69       |          |          |          |          |          |          |                                     |          |               |
|          | 70       |          |          | _        |          |          |          | -                                   |          |               |
|          | 71       | T        |          |          |          |          | $\neg$   |                                     |          | $\overline{}$ |
|          | 72       |          |          |          |          |          |          |                                     |          |               |
|          | 73       |          |          |          |          |          | -        |                                     |          |               |
|          | 73<br>74 |          |          |          |          |          |          |                                     |          |               |
|          | 75       |          |          |          |          |          |          |                                     |          |               |
|          | 76<br>77 |          |          |          |          |          |          |                                     |          |               |
|          | 77       |          |          |          |          |          |          |                                     |          |               |
|          | 78       |          |          |          |          |          |          |                                     |          |               |
|          | 79       |          |          |          |          |          |          |                                     |          |               |
|          | 80       |          |          |          |          |          |          |                                     |          |               |
|          | 81       |          |          |          |          |          |          |                                     |          |               |
|          | 82       |          |          |          |          |          |          |                                     |          |               |
|          | 83       |          |          |          |          |          |          |                                     |          |               |
|          | 84       |          |          |          |          |          |          |                                     |          |               |
|          | 85       |          |          |          |          |          |          |                                     |          |               |
|          | 86       |          |          |          |          |          |          |                                     |          |               |
|          | 87       |          |          |          |          |          |          |                                     |          |               |
|          | 88       | Ш        |          | _        |          |          |          |                                     | Ш        | L.            |
|          | 89       | Щ        | _        |          | L_       | L.       |          |                                     |          | _             |
|          | 90       | Ш        |          | _        | Ш        | Щ        | <u> </u> | _                                   | Ш        | _             |
|          | 91       | $\sqcup$ |          |          |          |          | <u> </u> | L                                   | $\perp$  | _             |
|          | 92       | Щ        |          |          |          |          |          | L                                   |          | _             |
|          | 93       | Ш        |          | <u> </u> |          | L.,      | _        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _        | _             |
| <u> </u> | 94       | Ш        | <u></u>  | <u> </u> | $\vdash$ | <u> </u> | <u> </u> | <u> </u>                            | <u> </u> | -             |
| <u> </u> | 95       | <u> </u> |          | <u> </u> | $\vdash$ |          | _        | <u> </u>                            | $\vdash$ | _             |
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|          | 97       | $\vdash$ |          | ļ        | $\vdash$ | <u> </u> | <u> </u> | <del> </del>                        | ├        | -             |
| -        | 98       | $\vdash$ | <u> </u> | ├-       | -        | <u> </u> | ⊢        | <del> </del>                        | ├—       | <u> </u>      |
|          | 99       | _        |          | <b>-</b> | $\vdash$ | <u> </u> |          | $\vdash$                            | ├-       |               |

| Cl       | Claim  |              |              | Date         |          |  |                |  |  |                |  |  |
|----------|--|--------------|--------------|--------------|----------|--|----------------|--|--|----------------|--|--|
|          |  |              |              |              |          |  |                |  |  |                |  |  |
| Final    | Original   |              |              |              |          |  |                |  |  |                |  |  |
|          | 101  |              |              |              |          |  |                |  |  |                |  |  |
|          | 102  |              |              |              |          |  |                |  |  |                |  |  |
|          | 103  |              |              |              |          |  |                |  |  |                |  |  |
|          | 104<br>105   |              |              |              |          |  |                |  |  |                |  |  |
|          | 105  |              |              |              |          |  |                |  |  |                |  |  |
|          | 106<br>107   |              |              |              |          |  |                |  |  |                |  |  |
|          | 107  |              |              |              |          |  |                |  |  |                |  |  |
|          | 108  |              |              |              |          |  |                |  |  |                |  |  |
| L        | 109<br>110   | <u> </u>     |              |              |          |  |                |  |  |                |  |  |
|          | 110  |              |              |              |          |  |                |  |  |                |  |  |
|          | 111  |              |              |              |          |  |                |  |  |                |  |  |
|          | 112  |              |              |              |          |  | _              |  |  |                |  |  |
|          | 111<br>112<br>113                                    | L.           | L            | <u> </u>     |          | $oxed{oxed}$                                     | <u> </u>       | L.   | <u> </u>   | L              |  |  |
|          | 114<br>115   |              |              |              |          |  |                |  |  |                |  |  |
|          | 115  | _            | <u> </u>     |              |          | _  | _              | $ldsymbol{ld}}}}}}$ |  |                |  |  |
|          | 116  |              | _            |              |          | _  | _              | <u> </u>   |  |                |  |  |
|          | 117  | _            | <u></u>      | _            |          |  | <u> </u>       |  |  | _              |  |  |
|          | 118  | _            | _            | _            |          |  | L              | _  |  | _              |  |  |
|          | 119  | _            | _            |              |          |  |                |  |  | $oxed{oxed}$   |  |  |
|          | 120  |              | L            | <u>_</u>     | _        | _  | <u> </u>       | <u> </u>   | L  | _              |  |  |
|          | 121  |              | L            |              |          | L_   |                | _  | _  | _              |  |  |
|          | 122  |              |              |              |          |  | <u> </u>       |  | _  | <u> </u>       |  |  |
| L        | 123  | <u> </u>     | L            | L            |          |  | _              |  | _  | _              |  |  |
|          | 124  | <u> </u>     | L_           | <u></u>      |          |  |                |  | _  | <u> </u>       |  |  |
|          | 125  | <u> </u>     | _            | <u> </u>     |          |  | _              |  | <u> </u>   | <u> </u>       |  |  |
|          | 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127 | <u> </u>     | <u> </u>     | <u> </u>     |          |  | _              |  | _  | <u> </u>       |  |  |
|          | 127  |              | <u> </u>     |              | _        |  | _              |  | _  | _              |  |  |
|          | 128<br>129   |              | _            |              |          | <u> </u>   | _              | _  | <u> </u>   | _              |  |  |
|          | 129  | _            | _            |              | _        | <u> </u>   |                | _  | -  | _              |  |  |
|          | 130  | <u> </u>     | <u> </u>     |              | _        | <u> </u>   |                | _  | _  | <u> </u>       |  |  |
|          | 131<br>132   | _            | $\vdash$     |              | _        |  | _              | $\vdash$   | _  | -              |  |  |
|          | 132  | <u> </u>     | <u> </u>     | -            | ├        | i -  | -              | <u> </u>   |  |                |  |  |
|          | 133<br>134   | -            | $\vdash$     |              | $\vdash$ | $\vdash$   | $\vdash$       | $\vdash$   | $\vdash$   | -              |  |  |
|          | 134  |              | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$   | $\vdash$       | $\vdash$   | -  | -              |  |  |
|          | 135  | -            | ⊢            | $\vdash$     | $\vdash$ | -  | <u> </u>       |  | <del> </del>                                     | <del> </del> — |  |  |
|          | 136<br>137<br>138                                    | $\vdash$     | -            |              | ├—       | $\vdash$   |                | <del>                                     </del>   | -  | $\vdash$       |  |  |
|          | 137  |              | <del> </del> | <del> </del> |          | $\vdash$   | $\vdash$       | $\vdash$   | $\vdash$   | $\vdash$       |  |  |
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|          | 140  | ├-           | ⊢            | $\vdash$     | $\vdash$ | ├  | ╁              |  | ├  | -              |  |  |
|          | 141  | $\vdash$     | $\vdash$     |              | $\vdash$ | -  | -              | <del>  -</del>   | -  | ┢              |  |  |
| -        | 142  | $\vdash$     | ├            | $\vdash$     |          | $\vdash$   | <del> </del> — | $\vdash$   | -  | -              |  |  |
| -        | 143  | ⊢            | $\vdash$     | ├            |          | $\vdash$   |                | $\vdash$   | -  |                |  |  |
| -        | 144  | -            | $\vdash$     | ├            | $\vdash$ | <del> </del>                                     | -              | <del> </del>   | <del>                                     </del> |                |  |  |
| -        | 145  | -            | -            | +-           | $\vdash$ | <del>                                     </del> | $\vdash$       | <del>                                     </del>   | $\vdash$   | $\vdash$       |  |  |
|          | 146  | 1            | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$   | $\vdash$       | $\vdash$   | $\vdash$   | $\vdash$       |  |  |
|          | 147  | $\vdash$     | $\vdash$     | ╁            | $\vdash$ | -  | $\vdash$       | 1  | ⊢  | $\vdash$       |  |  |
| -        | 148  | <del> </del> | $\vdash$     | ┼─           | $\vdash$ | $\vdash$   | -              | $\vdash$   | ├-   | -              |  |  |
| <u> </u> | 149  | $\vdash$     | $\vdash$     | $\vdash$     | -        | <del> </del>                                     | -              | <del> </del>   |  | $\vdash$       |  |  |
| <u> </u> | 150  | <del> </del> | ╁            | $\vdash$     | ⊢        | ╁  | $\vdash$       | ╁  | $\vdash$   | ┢              |  |  |
|          | 100  | Ь            | Ц.           |              | Ц        | L  |                | Ц  | L  | <u> </u>       |  |  |